Thermochimica Acta, 236 (1994) v–vi
Elsevier Science B.V., Amsterdam

CONTENTS

(*Abstracted/Indexed in: Curr. Contents: Phys., Chem. Earth Sci.; Eng., Technol. Appl. Sci., Chem. Abstr., PASCAL/CNRS*)

REGULAR PAPERS

Theoretical

Conversion dependence of activation energy for model DSC curves of consecutive reactions
S. Vyazovkin (Vienna, Austria) 1

Thermodynamics and Calorimetry

Thermodynamics of associated solutions. Prediction of excess molar enthalpies of acetone + bromoform + saturated hydrocarbon mixtures using a chemical model
I. Nagata (Kanazawa, Japan) and A. Książczak (Warsaw, Poland) 15

Excess molar enthalpies for methanol + acetone and methanol + acetone + benzene mixtures at 298.15 K
I. Nagata (Kanazawa, Japan) 23

Liquid–liquid equilibria for aniline + benzene + *n*-heptane and methanol + aniline + *n*-heptane + benzene at 25°C
I. Nagata (Kanazawa, Japan) 31

On the characteristics of the signal curves of heat flux calorimeters in studies of reaction kinetics. Part 2. The response to an inconstant heat flux
K.-R. Löblich (Baringhausen, Germany) 39

Enthalpies of mixing in $PrCl_3$–$CaCl_2$ and $NdCl_3$–$CaCl_2$ liquid systems
M. Gaune-Escard (Marseille, France), L. Rycerz, W. Szczepaniak and A. Bogacz (Wrocław, Poland) 51

Calorimetric investigation of $PrCl_3$–NaCl and $PrCl_3$–KCl liquid mixtures
M. Gaune-Escard (Marseille, France), L. Rycerz, W. Szczepaniak and A. Bogacz (Wrocław, Poland) 59

Calorimetric investigation of $NdCl_3$–MCl liquid mixtures (where M is Na, K, Rb, Cs)
M. Gaune-Escard (Marseille, France), A. Bogacz, L. Rycerz and W. Szczepaniak (Wrocław, Poland) 67

A bench-scale evaporative calorimeter for diagnostic and control possibilities in vacuum processes
G. Févotte (Lyon, France) and J.P. Klein (Villeurbanne, France) 81

Mutual influences between ammonium heptamolybdate and γ-alumina during their thermal treatments
A.A. Said (Arsiut, Egypt) 93

Enthalpies of dilution of some electrolytes in water at 298.15 K
C. Yanes, R. Sanchez-Montalvo, J.J. Calvente and A. Maestre (Seville, Spain) 105

Application of thermogram reconstruction to thermokinetic studies with conduction calorimeters
J.-S. Liu, X.-C. Zeng, Y. Deng and A.-M. Tian (Chengdu, People's Republic of China) 113

Excess enthalpies and excess volumes of mixing for mixtures of isomeric butyl amines and acetonitrile
G. Pathak, S.D. Adyanthaya, K.R. Patil and S.D. Pradhan (Pune, India) 123

Solubilité des cristaux liquides dans les solvants organiques
S.M. Pestov, V.A. Molotchko et R.A. Lidine (Moscou, Fédération Russe) 131

Thermal Analysis

Thermodynamique de la formation de solution nématique dans le système double de 4-*n*-propyl- et 4-*n*-amyl-(4'-cyanophényl)cyclohexane
S.M. Pestov, V.A. Molotchko, R.A. Lidine et A.M. Pestov (Moscou, Fédération Russe) 141

Complexation of uranyl (UO_2^{2+}) and thorium (Th^{4+}) with arylbis(5-hydroxy-3-methyl-1-phenyl-pyrazol-4-yl)methanes
A.A.T. Ramadan, S.L. Stefan, B.A. El-Shetary and F.M. Omar (Cairo, Egypt) 149
A combined mass spectrometric/gas chromatographic approach for the thermoanalytical characterization of supported heterogeneous catalysts
C. Dossi, A. Fusi and R. Psaro (Milan, Italy) 165
Thermal investigation and stereochemical studies of some cyclic ligand complexes of nickel(II), copper(II), zinc(II) and cadmium(II) in the solid state. Part 1
S. Mitra, P. Kundu (Calcutta, India) and R.B. Singh (Imphal, India) 175
A simple method of kinetic model discrimination. Part 1. Analysis of differential non-isothermal data
J. Málek and J.M. Criado (Seville, Spain) 187
Solid-phase thermal reactions of nickel(II) complexes containing *dl*-4-methyl-1,2-pentanediamine
Y. Ihara and T. Fukui (Kanazawa, Japan) 199
An investigation of the preparation of TiO_2-based catalysts using methods of thermal analysis
D. Qin, W. Chang, J. Zhou and Y. Chen (Sichuan, China) 205
The effect of temperature and phase state on the infrared spectrum of $Ba(NO_3)_2$
S. Taha (El-Fayoum, Egypt) and M. Tosson (Giza, Egypt) 217
Heat transfer inside emulsions. Determination of the DSC thermograms. Part 1. Crystallization of the undercooled droplets
J.P. Dumas, Y. Zeraouli and M. Strub (Pau, France) 227
Heat transfer inside emulsions. Determination of the DSC thermograms. Part 2. Melting of the crystallized droplets
J.P. Dumas, Y. Zeraouli and M. Strub (Pau, France) 239
Non-isothermal kinetic and thermodynamic study of the decomposition of lead acetate trihydrate
M.A. Mohamed, S.A. Halawy and M.M. Ebrahim (Qena, Egypt) 249

Other Topics

Thermochemistry and lattice energetics of hexahalogenozirconates
H. Vu Thanh and J. Błażejowski (Gdańsk, Poland) 263
The impact of feedback on the determination of masses and forces in controlled atmospheres
Th. Gast (Berlin, Germany) 277

Author Index 291

Subject Index 293